

# First Nations Launch 2022 Challenges & Teams

Of 20 teams initially selected, the following teams met all requirements for each of the three challenges

MOON CHALLENGE	MARS ENGINEERING CHALLENGE	GATEWAY CHALLENGE
		
Dual deploy high-power rocket with a GPS data logger onboard; apogee of 3,500-4,000 ft; reconstruct a 3D trajectory of the flight and verify stability.	Dual deploy high-power rocket with a cold gas thruster system, gyroscope sensor, and an external camera. Roll rate must maintain 120-240 rpm for 3 seconds, altitude range of 3,500 - 4,000 ft.	Dual deploy high-power rocket from a list of possible kit combinations; launch to an altitude of 2,500 ft.
Navajo Technical University (TCU)	Fort Lewis College (NASNTI)	Fond du Lac Tribal and Community College (TCU)
University of California, Davis (AISES)	Northern Arizona University (NASNTI)	Lac Courte Oreilles Ojibwe Community College (TCU)
University of Colorado Boulder (AISES)	Queen's University (INTERNATIONAL)	Leech Lake Tribal College (TCU)
University of Hawai'i at Mānoa (AISES)	University of North Carolina at Pembroke (NASNTI)	Northern Oklahoma College (NASNTI)
	University of Washington, Seattle (NASNTI)	

## SCHOOL CATEGORIES

TCU	NASNTI	AISES	INTERNATIONAL
Tribal Colleges & Universities	Native American-Serving Nontribal Institutions	American Indian Science & Engineering Society Chapter	Non-U.S. Colleges & Universities
There are 32 official TCU in the U.S. (1 candidate); 19 are community colleges. 3 more schools have associate status.	NASNTI are non-TCU higher education institutions with at least 10% Native American undergraduate enrollment. There are approx. 100 NASNTI in the U.S.	AISES administers programs and services that support the success of indigenous people in STEM careers. There are 95 college chapters of AISES in the U.S. and Canada.	These include schools in Canada and potentially other locations throughout North America that serve indigenous students.

# First Nations Launch 2022 Awards

Congratulations to all 13 teams that completed the competition and those receiving specific recognitions!

---

## CHALLENGE GRAND PRIZES

---

### MOON

1st Place: University of California, Davis

2nd Place: University of Colorado, Boulder

3rd Place: University of Hawai'i at Manoa

---

### INTERNATIONAL

1st Place: Queen's University

---

### MARS ENGINEERING

1st Place: Northern Arizona University

2nd Place: University of Washington, Seattle

3rd Place: University of North Carolina, Pembroke

---

## TEAM CHALLENGE AWARDS

---

### MOON

#### WRITTEN PRESENTATION AWARD

1st Place: University of Colorado Boulder

2nd Place: University of California, Davis

3rd Place: University of Hawai'i at Manoa

#### ORAL PRESENTATION AWARD

1st Place: University of Hawai'i at Manoa

2nd Place: University of California, Davis

3rd Place: Navajo Technical University

---

### MARS ENGINEERING

#### WRITTEN PRESENTATION AWARD

1st Place: Queen's University

2nd Place: Northern Arizona University

3rd Place: University of Washington, Seattle

#### ORAL PRESENTATION AWARD

1st Place: Northern Arizona University

2nd Place: Queen's University

3rd Place: University of North Carolina, Pembroke

---

# First Nations Launch 2022 Awards, continued

Congratulations to all 13 teams that completed the competition and those receiving specific recognitions!

---

## COMPETITION AWARDS

---

<b>ALTITUDE AWARD</b>	Team with actual launch apogee closest to required/predicted apogee in the Flight Readiness report. <a href="#">University of North Carolina, Pembroke</a>
<b>AESTHETIC AWARD</b>	Team with the most innovative and professional-looking rocket as determined by peers. <a href="#">University of Hawai'i at Manoa</a>
<b>JUDGE'S AWARD</b>	Team that best met the goals of the program and exemplified hard work and determination as determined by the judges. <a href="#">Queen's University</a>
<b>NEXT STEP AWARDS</b>	Teams best deemed to compete at the next level of NASA competition as determined by the Wisconsin Space Grant team. <a href="#">RockOn!: Navajo Technical University</a> <a href="#">Student Launch Initiative: Northern Arizona University</a>
<b>NOBILE AWARD</b>	Team chosen by Tripoli Rocketry Association whose rocket met all safety expectations according to TRA standards. <a href="#">Queen's University</a>
<b>OUTREACH AWARD</b>	Team that completes one or more outreach events that can be continued or scaled. <a href="#">Northern Oklahoma College</a>
<b>PATCH CONTEST AWARD</b>	Individual who submits the winning patch submission. <a href="#">Evie Clarke · University of Colorado Boulder</a>
<b>TEAM SPIRIT AWARD</b>	Team that shows interactive attitude, helpfulness, and cooperation as determined by peers. <a href="#">University of Hawai'i at Manoa</a>

---

NASA Activity Manager: Shanessa Jackson (Paragon TEC), Kennedy Space Center – [shanessa@nasa.gov](mailto:shanessa@nasa.gov)

Wisconsin Space Grant Lead: Christine Bolz, Carthage College - [cbolz@carthage.edu](mailto:cbolz@carthage.edu)